

SALMON RECOVERY SCIENCE REVIEW PANEL
Report for the meeting held
March 18-19, 2002
Southwest Fisheries Science Center, Santa Cruz Lab
National Marine Fisheries Service
Santa Cruz, CA

This introductory material (pp. i-iii) is available on the RSRP web site. As an aid to the reader, we are now including it with individual reports.

Recovery Science Review Panel

Robert T. Paine	University of Washington, Chair
Ted Case	University of California – San Diego
Frances James	Florida State University
Russell Lande	University of California – San Diego
Simon Levin	Princeton University
William Murdoch	University of California – Santa Barbara

The Recovery Science Review Panel (RSRP) was convened by the National Marine Fisheries Service (NMFS) to help guide the scientific and technical aspects of recovery planning for listed salmon and steelhead species throughout the West Coast. The panel consists of six highly qualified, independent scientists who perform the following functions:

1. Review core principles and elements of the recovery planning process being developed by NMFS.
2. Ensure that well accepted and consistent ecological and evolutionary principles form the basis for all recovery efforts.
3. Review the processes and products of all the Technical Recovery Teams (TRTs) for scientific credibility and ensure consistent application of core principles across Evolutionarily Significant Units (ESUs) and recovery domains.
4. Oversee peer review for all recovery plans and appropriate substantial intermediate products.

The panel meets 3-4 times annually, and submits a written review of the issues and documents discussed at each meeting.

Expertise of the Panel Members

Dr. Robert Paine (Chair), University of Washington

- **Field of expertise:** marine community ecology, complex ecological interactions, natural history;
- **Research:** About 100 scientific publications.
- **Awards and Scientific Leadership:** member, National Academy of Sciences; Robert H. MacArthur award, Ecological Society of America; Tansley award, British Ecological Society; Sewall Wright award, American Society of Naturalists; Eminent Ecologist award, Ecological Society of America; past president of the Ecological Society of America; member of National Research Council committees; member of editorial boards

Dr. Ted Case, University of California-San Diego

- **Field of expertise:** evolutionary ecology, biogeography and conservation biology;
- **Research:** More than 130 scientific articles published, including papers in *Science*, *Nature*, *American Scientist*; featured in *Discover* magazine and on public television and radio.
- **Awards and Scientific Leadership:** Board member for National Center for Ecological Analysis and Synthesis; former Chair of the Department of Biology at UCSD; author of leading textbook on theoretical ecology

Dr. Frances C. James, Florida State University

- **Field of expertise:** conservation biology, population ecology, systematics, ornithology;
- **Research:** More than 105 scientific articles published.
- **Awards and Scientific Leadership:** Eminent Ecologist award, Ecological Society of America; past president of the American Institute of Biological Sciences and the American Ornithologists' Union; member of National Research Council committees; service on editorial boards; Board of Governors for The Nature Conservancy, member of the National Academy of Arts and Sciences

Dr. Russell Lande, University of California-San Diego

- **Field of expertise:** evolution and population genetics, management and preservation of endangered species, conservation and theoretical ecology;
- **Research:** More than 116 scientific publications.
- **Awards and Scientific Leadership:** Sewall Wright award, American Society of Naturalists; John Simon Guggenheim Memorial Foundation Fellow, MacArthur Foundation Fellow, Member American Academy of Arts and Sciences; Past President of the Society for the Study of Evolution; developed criteria for classifying endangered

species adopted by the International Union for Conservation of Nature and Natural Resources (IUCN)

Dr. Simon Levin, Princeton University

- **Field of expertise:** theoretical/mathematical ecologist;
- **Research:** More than 300 technical publications.
- **Awards and Scientific Leadership:** member, National Academy of Sciences; member, American Academy of Arts and Sciences; Robert H. MacArthur award recipient from the Ecological Society of America; Statistical Ecologist award from the International Association for Ecology; Distinguished Service Award from the Ecological Society of America; Okubo award, Society for Mathematical Biology; member of many National Research Council committees; member of the Science Board, Santa Fe Institute; former Board Chair, Beijer International Institute of Ecological Economics; Board of the Committee of Concerned Scientists; past President, Ecological Society of America; past President, Society of Mathematical Biology; and Guggenheim Fellowship

Dr. William Murdoch, University of California-Santa Barbara

- **Field of expertise:** theoretical and experimental ecology, population ecology;
- **Research:** More than 120 scientific publications.
- **Awards and Scientific Leadership:** Robert H. MacArthur award, Ecological Society of America; President's award, American Society of Naturalists; Guggenheim Fellow; member, American Academy of Arts and Sciences; Founder, National Center for Ecological Analysis and Synthesis; Director of California Coastal Commission 10-year study of a coastal nuclear power plant; Board of Governors, the Nature Conservancy

Dr. Beth Sanderson

- National Marine Fisheries Service liaison to the Recovery Science Review Panel
- Recovery Science Review Panel report coordinator

Dr. Richard Farr

- Science Writer, Northwest Fisheries Science Center